

FIG.1

TABLE 1

| GOAL | GOAL PARAMETERS |
|--|---|
| DURING "T", SATISFY "Q" FOR CLIENT "C" USING SERVICE "S" | C: Client \in {client1, client2, ...} S: Service \in {Web, DNS, Fileserver, ERP, ...} Q: QoS Expression Q.metric: QoS Metric \in {TransactionResponseTime, TransactionFailRate, ...} Q.op: Operator \in {=, \leq , \geq , ...} Q.value: Desired QoS Value \in {Float, Integer, Enumeration, ...} T: TimeRange |

FIG.2

TABLE 2

| PROCEDURAL POLICY LOGIC | |
|-------------------------|---|
| 1. | if (\neg satisfied (getClientQoS(C, Q.metric), Q.op, Q.value)) |
| 2. | then |
| 3. | set priority[C][S] = priority[C][S]++ // Make appropriate priority adjustment, i.e. increase. |
| 4. | enforce the following "if condition then action" rule at each network element E that switches packets sent to/from C: |
| 5. | if (packet P has arrived at E) && (timeOfDay is in T) && |
| 6. | ((P.destIPport = S.serviceIPport) && (P.srcIPsubnet = C.subnetMask)) |
| 7. | ((P.srcIPport = S.serviceIPport) && (P.destIPsubnet = C.subnetMask))) |
| 8. | then |
| 9. | set P.priority = priority[C][S] |
| 10. | endif |
| 11. | Endif. |

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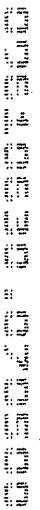


FIG. 4

